FSA Modernization Partner

NSLDS II Reengineering Procedures Detail Design: Reasonability - Quarterly (RSNQ) P-RSNQ-1

Version 1.0

November 08, 2002

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Document Control

Version Number	Description	Release Date	Author
1.0	Initial Release	11/08/2002	David Marker

1 Reasonability Quarterly (RSNQ) Process

Separate from the loan detail data feed to NSLDS II, GAs also submit summary loan portfolio information on the Guaranty Agency Financial Report (Form 2000) directly to FMS. GAs use Form 2000 to request payments from and make payments to ED under the FFEL Program. The Form 2000 contains requests for reinsurance payments.

GAs must maintain detailed records to support each entry on the Form 2000 and be able to reconstruct the entries back to individual loan, borrower or lender levels, or to specific GA level transactions. This includes keeping accurate records of reinsurance payments and collections on defaulted loans at the loan and borrower level. ED's instructions to the GAs state that records must be available for verification by the Secretary of Education or other authorized representatives of the U.S. Government.

Federal Student Aid (FSA) creates a quarterly detail loan portfolio data extract to support the monitoring of GA ED2000 Payment Reasonability. The procedure may be initiated both in Default and Request mode. Based on the time period specified by the user or computed in default mode, the matching data from Loan, Loan Guarantor, Guaranty Agency, Loan Cancellation, Repurchase Loan, Loan Disbursement, Guarantees Transferred (In and Out), Insurance Claim Payments and Insurance Refunds are retrieved.

There are two sets of dates used in ED2000 monitoring reasonability: the report begin and end dates, which are the quarter begin and end dates, and extract begin and end dates. Currently, there is no limit to the date before which GA's loan data will be extracted. The extract end date is set to be the same as the report end date.

The RSNQ process is scheduled to run in default mode on the 60th day following the end of the fiscal quarter. This accommodates the 90 days from the start of the quarter required by the GAs to submit their 2000 Form and an additional 60 days required for processing of the 2000 Form data. The process may also be initiated in request mode for a single GA or for all GAs, if FSA determines such a re-computation is required. The detail data is stored on NSLDS II and is available for transmit to the GAs upon request.

The RSNQ process consists of the following procedures.

- Online RSNQ Request initiator (Web Screen) (**Section 1.1**)
- RSNQ Detail Extract and Summarize (**Section 1.2**)
  - o Define Report Parameters
  - o Extract Detail Data
  - o Calculate Delta in Reasonability Quarterly Details
  - o Compute Claim Totals
  - o Compute Net Insurance Claim Payment
  - o Calculate RSNQ Summary
  - o Backup RSNQ Detail Data

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1.1 Online RSNQ Request Initiator (Web Screen)

1.1.1 Procedure Specifications

Procedure Name:	Online RSNQ Request Initiator
Procedure Short Description:	This is a web data entry screen that facilitates the entry of parameters when RSNQ computation is required
Data Source:	Authorized FSA or NSLDS II users manually enter data through custom MicroStrategy web interface
Procedure Frequency:	5-6 times a year
Detailed Technical Requirement References:	5.178
Output Media:	RPT_PARM and RPT_PARM_ATT tables. Variables sent to kick off RSNQ Detail Extract and Summarize (Section 1.2)
Output Target Platform:	NSLDS II
Output Storage Requirements:	1 entry for RPT_PARM table and 4 entries for RPT_PARM_ATT table created for each requested run are stored permanently
Related Reports/Screens:	Reports (See Report Detail Design: R-MBR-002 Reasonability Quarterly Backup F2000 Report) MBR006 (See NSLDS II Reengineering Screens Detail Design: Exception Reports Section 3.10 Reasonability Quarterly Form 2000 Report Parameter)

1.1.2 Procedure Flow
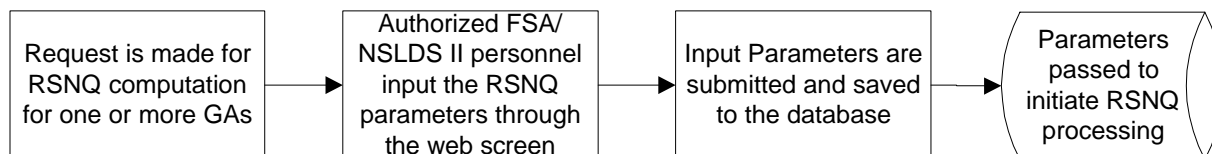
Figure 1, Online RSNQ Request Initiator

1.1.3 Computational Logic – Input Requested Parameters

/*Request is made for RSNQ computation for one or more GAs*/

/*Authorized FSA/NSLDS II personnel input the RSNQ parameters through the web screen */
Web Screen captures following data fields:
Fiscal Year
Fiscal Quarter (Quarter for which to compute the RSNQ)
GA Code – single GA or '*' for All GAs
GA Over Ride Indicator – Y or N
Official Run Indicator – Y or N

/* Note: See Screen Detail Design for validations (e.g. GA Code must exist in GA table, unless Over Ride Indicator = Y then the GA.ACT_CODE must = spaces)*/

/* Input Parameters are submitted and saved to the database */
Create a RPT_PARM

Create RPT_PARM_ATTR for the given Report Parameter
      Set SEQ = 1
      Set NUM_VAL to Input Fiscal Year

      Set SEQ = 2
      Set CHAR_VAL to Input Fiscal Quarter

      Set SEQ = 3
      Set CHAR_VAL to Input GA Code

      Set SEQ = 4
      Set CHAR_VAL to Input GA Over Ride Indicator

      Set SEQ = 5
      Set CHAR_VAL to Official Run Indicator

/* Parameters passed to initiate RSNQ processing */
Call **RSNQ Detail Extract and Summarize** procedure and pass RPT_ID and PARM_TSTAMP as variables

NOTE: the scheduled RSNQ process is initiated by calling the **RSNQ Detail Extract and Summarize** procedure with the following Report Parameters:
RPT_ID = MBR006
PARM TSTAMP = 2999-12-31:00:00:00

1.1.3.1 *Inputs*

Web Input Screen

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Note: Actual Web Screen will be in standard MicroStrategy format and may appear differently than above

1.1.3.2 Outputs

RPT_PARM (Database Output, values also passed to initiate RSNQ Detail Extract and Summarize procedure – RPT_ID_VAR & PARM_TSTAMP_VAR)

Data Element	Length	Type	Description	Mapping
RPT_ID	6	C	Used to distinguish between AMF, LPIF, Federal Receivables, and Reasonability extract.	"MBR006"
PARM_TSTAMP	10	T	Date web inputs were entered	System Time Stamp
UID	8	C	User ID of requesting individual	Pulled from requesting user's log on

RPT_PARM_ATTR

Data Element	Length	Type	Description	Mapping
RPT_PARM_RPT_ID	6	C	Used to distinguish between AMF, LPIF, and Federal Receivables extract.	RPT_PARM.RPT_ID

Data Element	Length	Type	Description	Mapping
RPT_PARM_PARM TSTAMP	10	T	Date web inputs were entered	RPT_PARM.PARM TSTAMP
SEQ	2	N	Generic field used to give an ID for a report attribute	Sequence numbers 1-5 are populated, see section 1.1.3 logic.
CHAR_VAL	40	C	Generic field used to give a character value for a report attribute	Sequence numbers 1-5 are populated, see section 1.1.3 logic
NUM_VAL	12	N	Generic field used to give a numeric value for a report attribute	Sequence numbers 1-5 are populated, see section 1.1.3 logic
DT_VAL	10	T	Generic field used to give a date value for a report attribute	Sequence numbers 1-5 are populated, see section 1.1.3 logic.

1.1.4   Procedure Assumptions

#	Assumption
1	Any requests made for recalculating the RSNQ for a previous quarter are run using the current (as of run date) NSLDS data. This means that the result of the recalculation will reflect data updated since the original execution.
2	The scheduled mode is set to run on the 60th day after the end of the fiscal year regardless of any RSNQ requests activity

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1.2 RSNQ Detail Extract and Summarize

1.2.1 Procedure Specifications

| Procedure Name:	RSNQ Detail Extract and Summarize
Procedure Short Description:	The procedure first determines a report begin and end date. Based on this time period, the matching detail data is retrieved. This detail data is backed up and made available to the GAs upon request. The data is also summarized and used to populate the GA Summary table
Data Source:	Report ID and Parameter Timestamp are passed as part of Schedule or Request initiation. Database tables with Loan, Student, School, GA , and Insurance Claim data
Procedure Frequency:	On Request (5-6 times a year); and Scheduled once a quarter
Detailed Technical Requirement References:	5.178
Output Media:	DB2 EEE RSNQ_DETAIL TEMP, RSNQ_DETAIL_DIFF_TEMP and GA_SUM Tables
Output Target Platform:	NSLDS II DB2 EEE
Output Storage Requirements:	RSNQ_DETAIL TEMP, RSNQ_DETAIL_DIFF_TEMP and GA_SUM tables data stored permanently
Related Reports/Screens:	Reports (See Report Detail Design: R-MBR-002 Reasonability Quarterly Backup F2000 Report) MBR006 (See NSLDS II Reengineering Screens Detail Design: Exception Reports Section 3.10 Reasonability Quarterly Form 2000 Report Parameter)

1.2.2 Procedure Flow
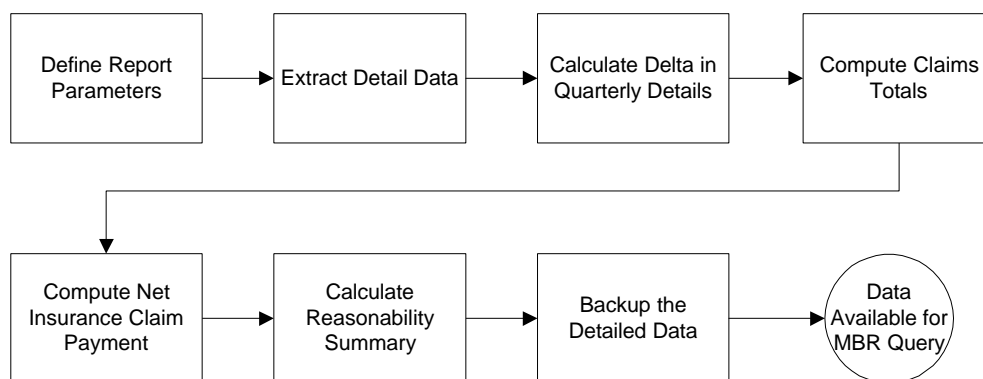
Figure 2, RSNQ Detail Extract and Summarize

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1.2.3   Computational Logic - Define Report Parameters

/***

This function determines if the application is running in Scheduled mode or in a Request mode. If it is in Scheduled mode, the Report Begin and End Dates are computed using the run date. If it is in Request mode, the Report Begin and End dates are calculated using the input Fiscal Year and Quarter. For both Modes, GA info is retrieved from the Report Parameter Attribute table. A temporary table is created, which is used in the next step when performing the actual detail data extract.
***/

/*Note this is just a check to ensure the correct variables are being passed to the procedure, this step should always pass*/
If RPT_ID_VAR <> MBR006
        Procedure ends with error
End If

/* Determine Report Begin and End dates for Scheduled Mode*/
If PARM_TSTAMP_VAR = 2999-12-31:00:00:00
        Set Report End date to Latest Quarter end Date (December 31, March 31, June 30, or September 30) before the Current Date – (RPT_PARM_ATT .NUM_VAL where SEQ = 14)

        Set Report Begin date to begin date of the same Quarter (October 1, January 1, April 1, or July 1)

        Populate PARM_ATTR_TEMP

/* Determine Report Begin and End dates for Requested Mode*/
Else

    Set Report Begin date to First day of given Quarter (FY = RPT_PARAM_ATT.DT_VAL where SEQ = 1 and RPT_PARAM. RPT_ID = MBR006. Q = RPT_PARAM_ATT.DT_VAL where SEQ = 2 and RPT_PARAM. RPT_ID = MBR006)

    Set Report End date to Last day of given Quarter (FY = RPT_PARAM_ATT.DT_VAL where SEQ = 1 and RPT_PARAM. RPT_ID = MBR006. Q = RPT_PARAM_ATT.DT_VAL where SEQ = 2 and RPT_PARAM. RPT_ID = MBR006)

    Populate PARM_ATTR_TEMP
End If

/*** Note: Extract End date is the same as the Report end date and currently there is no set extract begin date (as such, extract begin date is whatever the GA responsibility begin date is). In the future, if the Extract Begin and End dates need to be derived, they would need to be derived during this step of the procedure. ***/

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1.2.3.1 *Inputs*

RPT_PARM

Data Element	Length	Type	Description	Mapping
RPT_ID_VAR	6	C	Value for Report ID, should be MBR006	Passed as variable when procedure initiated (RPT_PARM.RPT_ID)
PARM_TSTAMP_VAR	26	T	Timestamp Text	Passed as variable when procedure initiated (RPT_PARM. PARM_TSTAMP)
UID	8	C	User of ID of requesting Individual	Pulled from requesting user's log on

When the PARM_TSTAMP is set to '2999-12-31:00:00:00', the application must be run in Scheduled mode. If the timestamp is set to any other valid value, the application must be run in On-request mode.

RPT_PARM_ATTR

Data Element	Length	Type	Description	Mapping
RPT_PARM_RPT_ID	6	C	Used to distinguish between AMF, LPIF, and Federal Receivables extract.	RPT_ID_VAR
RPT_PARM_PARM TSTAMP	10	T	Date web inputs were entered	PARM TSTAMP_VAR
SEQ	2	N	Generic field used to give an ID for a report attribute	Sequence numbers 1-5 are populated, see section 1.1.3 logic.
CHAR_VAL	40	C	Generic field used to give a character value for a report attribute	Sequence numbers 1-5 are populated, see section 1.1.3 logic
NUM_VAL	12	N	Generic field used to give a numeric value for a report attribute	Sequence numbers 1-5 are populated, see section 1.1.3 logic
DT_VAL	10	T	Generic field used to give a date value for a report attribute	Sequence numbers 1-5 are populated, see section 1.1.3 logic.

RPT_PARM_ATTR (Static Values for Scheduled mode)
NOTE: These static values must be added to the RPT_PARM_ATTR table

Parameter Meaning	SEQ	Attribute Populated	Possible Values
GA Code	3	CHAR_VAL	* (specifies all GA's)

Parameter Meaning	SEQ	Attribute Populated	Possible Values
GA inactive Override indicator	4	CHAR_VAL	'N'
Fee Paid Indicator	5	CHAR_VAL	'Y' - (fee needs to be paid- info needs to be sent to FMS)
Report Type	11	CHAR_VAL	'Y' —Yearly
Number of Days Back	14	NUM_VAL	'60' - Number used to compute Report End Date by as many days from the date on which the application is running

RPT_PARM_ATTR (Values for Request mode)

Parameter Meaning	SEQ	Attribute populated	Possible Values
Report Fiscal Year	1	NUM_VAL	YYYY format.
Report Fiscal Quarter	2	NUM_VAL	1-4
GA Code (e.g., RC8AFY):	3	CHAR_VAL	Valid NSLDS GA Code.
GA Override Indicator	4	CHAR_VAL	Y- indicates override even when GA is closed. N – indicates GA is disregarded if it is closed
Fee Paid Indicator	5	CHAR_VAL	Y- indicates fee needs to be paid using this date. N- indicates fee not paid.

1.2.3.2 *Outputs*

PARM_ATTR_TEMP

Data Element	Length	Type	Description	Mapping
RPT_ID	6	C	Value for Report ID is MBR006	RPT_PARM.RPT_PARM_RPT_ID
UID	8	C	User of ID of requesting Individual	RPT_PARM.UID
RPT_BEG_DT	8	D	Report Begin Date - First day of a Fiscal Quarter	Calculate in Procedure
RPT_END_DT	8	D	Report End Date – Last day of a Fiscal Quarter	Calculate in Procedure

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Data Element	Length	Type	Description	Mapping
GA_CODE	3	C	Code for the Guaranty or '*' to specify all agencies	RPT_PARM_ATTR
GA_INACT_O VRR_IND	1	C	When this is set to 'Y' then use the GA code for processing even if the activity code is set to 'CLOSED'	RPT_PARM_ATTR
FEE_PAY_IND	1	C	Flag indicating whether the run is official	RPT_PARM_ATTR
BACKUP_IND	1	C	Flag indicating whether backup data needs to be sent to the GA

Not Applicable for RSNQ | No Value |

1.2.4   Computational Logic – Extract Detail Data

/***** This section determines the current Loan, Cancellation, Repurchase and Transfer Activity ******/

/* #1 Select GAs – This is outer loop */
If input GA Code is '*',
        Read each GA (guaranty agency) where GA.CODE ? ('555 or '927')
Else
        Read specific GA where GA.CODE = PARM_ATTR_TEMP.GA_CODE and GA.CODE ? ('555 or '927')
End If

If PARM_ATTR_TEMP .GA_INACT_OVRR_IND (inactive override indicator) = 'N' and
GA.ACT_CODE (Activity Code) NOT = spaces /* If it is Spaces indicates the GA is active */
        Skip the GA and go to the next GA
End If

/* Note this is just a back up check. This check should already have been made when the user enters the GA selection at the request web page */
If no GA is selected for input parameter criteria
        Terminate processing with appropriate error message.
End If

/* #2 Determine GA responsibility within the extract period. This is the inner loop; selecting Loan Guarantors (a Loan Guarantor is associated with one unique Loan) */

Read each LOAN_GUA /*Loan Guarantor*/ associated with the GA where
LOAN_GUA.RESP_BEG_DT <= PARM_ATTR_TEMP.RPT_END_DT and LOAN_GUA.VAL_IND = spaces
        Extract LOAN_GUA.RESP_BEG_DT, RESP_END_DT, and GA_CODE

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If LOAN_GUA.RESP_BEG_DT >= PARM_ATTR_TEMP.RPT_BEG_DT
    /* The loan was Transferred In within the Reporting Period */
    Extract LOAN.AMT, LOAN.DT and other Loan info. Extract most recent LOAN_CAN.DT
    and LOAN_CAN.CUM_AMT where LOAN_CAN.DT <
    PARM_ATTR_TEMP.RPT_END_DT
    /* Note: Transfer flag only set for transfer out. */
    Set the NSLDS_CODE to 6015.
    Write record to the RSNQ_DETAIL_TEMP table
End If

/*Determine if GA continues to have responsibility on the day of the Program Run.*/
/*Initiate Transfer Flag and Bypass Cancellation variable */
Set GA_TRANS_IND_VAR = 'N'
Set BYPASS_CAN_FLAG_VAR = 'N'

If LOAN_GUA.RESP_END_DT >= Current System Date /*Program Run date*/
        Continue, Go to #3 /* The GA continues to be responsible. */

Else
        /*Initiate Current GA's Responsible End Date Variable*/
        Set OLD_RESP_END_DT_VAR = LOAN_GUA.RESP_END_DT

        Read all other LOAN_GUA associated with the LOAN where
        LOAN_GUA.RESP_BEG_DT >= OLD_RESP_END_DT_VAR
                If any of the LOAN_GUA.GA_CODE = '555' or '927'
                        Set BYPASS_CAN_FLAG_VAR = 'Y'
                        /* The loan has been transferred to Debt Collection or ECMC. Hence the
                        Guaranty Amount has been adjusted to be net of Original Guaranty
                        Amount–Original Cancellation Amount we should NOT extract if there
                        are any cancellations. */
                        /* NOTE: Loans transferred to Debt Collection are NOT considered
                        transferred out */
                Else /*the new GA is NOT 555 or 927*/
                        If OLD_RESP_END_DT_VAR <= input Report End Date,
                        /* The loan was Transferred Out within the Reporting Period*/
                                Extract LOAN.AMT, LOAN.DT, and other Loan info. Extract most
                                recent LOAN_CAN.DT and LOAN_CAN.CUM_AMT where
                                LOAN_CAN.DT < PARM_ATTR_TEMP.RPT_END_DT
                                Set the NSLDS_CODE to 6025
                                Set GA_TRANS_IND_VAR to 'Y'
                                Write record to the RSNQ_DETAIL_TEMP table
                        End If
                End If
        End Loop of other LOAN_GUA

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End If

/* #3 Pull Loan Guaranty Activity for current Loan Guarantor */
Read FFEL LOAN associated with the current LOAN_GUA
If LOAN_GUA.RESP_BEG_DT <= LOAN.DT <= PARM_ATTR_TEMP.RPT_END_DT
     Extract LOAN.AMT, LOAN.DT, and other Loan info
     Set the NSLDS_CODE to 6006
     /* Note Set GA_TRANS_IND_VAR already set in previous steps */
     Write record to the RSNQ_DETAIL_TEMP table
End If

/* #4   Determine whether there is any Cancellation Activity */
If BYPASS_CAN_FLAG_VAR = 'N'
     If LOAN.TOT_CAN > 0
          Read each LOAN_CAN /*Cancellation*/ associated with the LOAN sorted
          descending LOAN_CAN.DT where LOAN_GUA.RESP_BEG_DT <=
          LOAN_CAN.DT <= PARM_ATTR_TEMP.RPT_END_DT
               /* Sum all individual cancellations to get the total cancellation amt for the
               GA*/
               Cancellation AMT = Cancellation AMT + LOAN_CAN.AMT_DIFF
               /* The take the most current cancellation date that is before the report
               end date*/
               Cancellation DT = most current LOAN_CAN.DT
          End Cancellation Loop
          Set the NSLDS_CODE to 6008
          /* Note Set GA_TRANS_IND_VAR already set in previous steps */
          Write record to the RSNQ_DETAIL_TEMP table
     End If
End If

/* #5 Determine whether there is any Repurchase Activity */
Read each RPCH_LOAN associated with the current LOAN where
LOAN_GUA.RESP_BEG_DT <= RPCH_LOAN .DT <= PARM_ATTR_TEMP.RPT_END_DT
     Extract RPCH.DT, RPCH.AMT and other Loan info
     Set the NSLDS_CODE to 6217
     /* Note Set GA_TRANS_IND_VAR already set in previous steps */
     Write record to the RSNQ_DETAIL_TEMP table
End Repurchase loop

/* End Loan Guaranty Loop*/
End Loop Read Next LOAN_GUA associated with the current GA

/*End GA Loop*/
End Loop Read Next GA

/********** This section of code determines the current Insurance Claim Payment Activity **************/

Read each INSUR_CL_PMT (Insurance claim payment) and its associated LEN_HOL (Lender Branch Holder) and LOAN
/* For all dates (e.g. cancellation date, insurance claim payment date etc.) should check if they are within the Extract Period. Currently the extract begin date is defaults to whatever the GA responsibility begin date is so only have to check if the date is less than the extract end date which is the same as the report end date*/
Where the INSUR_CL_PMT.DT < =PARM_ATTR_TEMP.RPT_END_DT and INSUR_CL_PMT .VAL_IND = spaces and LEN_HOL.RESP_BEG_DT <= PARM_ATTR_TEMP.RPT_END_DT and LEN_HOL.VAL_IND = Spaces and LOAN.TYPE = FFEL (*see definitions*)

    If LOAN.CURR_LOAN_STAT_DT > = Nov 13, 1997 and LOAN.CURR_LOAN_STAT = 'PC'
    /*Paid through Consolidation*/
        Skip, Go to next INSUR_CL_PMT /*Exclude Insurance Claim Payment*/
    Else
        Set GA_TRANS_IND_VAR = 'N'
        Read LOAN_GUA associated with current LOAN where LOAN_GUA.RESP_BEG_DT <= INSUR_CLPMT.DT <= LOAN_GUA.RESP_END_DT and LOAN_GUA.GA_CODE ? '555' or '927' and LEN_HOL.RESP_END_DT >= LOAN_GUA.RESP_BEG_DT and LOAN_GUA.VAL_IND = spaces

        /*Determine whether the loan was transferred out*/
        If the LOAN_GUA.RESP_END_DT < PARM_ATTR_TEMP.RPT_END_DT and another LOAN_GUA exists with a RESP_DT > the current LOAN_GUA.RESP_END_DT
            Set GA_TRANS_IND_VAR = 'Y'
        End If
        Extract INSUR_CL_PMT.DT, INSUR_CL_PMT.AMT, and other Claim Payment and LOAN info
        Set the NSLDS_CODE to 6017
        Write record to the RSNQ_DETAIL_TEMP table
    End If
End INSUR_CL_PMT Loop

/********** This section of code determines the current Insurance Claim Refund Activity **************/

Read each INSUR_CL_RFD (insurance claim refund) and its associated LEN_HOL and LOAN
Where the INSUR_CL_RFD.DT <= PARM_ATTR_TEMP.RPT_END_DT
And INSUR_CL_RFD.VAL_IND)= spaces and LEN_HOL.RESP_BEG_DT <= PARM_ATTR_TEMP.RPT_END_DT /* if extract begin date is set should also check here for LEN_HOL.RESP_END_DT >= extraction begin date*/
And LEN_HOL.VAL_IND = Spaces and LOAN.TYPE = FFEL (*see definitions*)
    Set GA_TRANS_IND_VAR = 'N'

Read each LOAN_GUA associated with current LOAN where LOAN_GUA.RESP_BEG_DT <= INSUR_CL_RFD.DT and LOAN_GUA.VAL_IND = spaces and LOAN_GUA.GA_CODE ? ('555' or '927')

    /*Determine whether the loan was transferred out*/
    If the LOAN_GUA.RESP_END_DT < PARM_ATTR_TEMP.RPT_END_DT and another
    LOAN_GUA exists with a RESP_DT > the current LOAN_GUA.RESP_END_DT
        Set GA_TRANS_IND_VAR = 'Y'
    End If

    Extract INSUR_CL_RFD.DT, INSUR_CL_RFD.AMT, and other Refund and LOAN info
    Extract RSN_CODE (reason code) by reading the latest INSUR_CL_PMT associated with
    the loan
    Set the NSLDS_CODE to 6117
    Write record to the RSNQ_DETAIL_TEMP table.
End LOAN_GUA loop
End INSUR_CL_RFD Loop

1.2.4.1 Inputs

PARM_ATTR_TEMP
(See 1.2.3.1 Define Report Parameters section for layout)

Base Tables and Data Elements
See Outputs for mapping

Entity/Table	Data Element
LOAN	ID_STU_SEQ_NO
	SEQ_NO
	NO
	DT
	AMT
	TOT_CAN
LOAN_TYPE	CODE
LOAN_GUA	RESP_BEG_DT
	RESP_END_DT
GA	CODE
LOAN_CAN	DT
	AMT_DIFF
RPCH_LOAN	DT

Entity/Table	Data Element
	AMT

1.2.4.2 Outputs

RSNQ_DETAIL_TEMP

Data Element	Length	Type	Description	Mapping
NSLDS_CODE	4	N	Record Type: 6006 = Loan Guar Activity 6008 = Cancellation Activity 6217 = Repurchase Activity 6015 = Transferred in Activity 6025 = Transferred out Activity 6017 = Insurance Claim Payment Activity 6117 = Insurance Claim Refund Activity	See Procedure Logic
RPT_BEG_DT	8	D	Report Begin Date - First day of a Fiscal Quarter	PARM_ATTR_TEMP.RPT_RPT_DT
RPT_END_DT	8	D	Report End Date – Last day of a Fiscal Quarter	PARM_ATTR_TEMP.RPT_END_DT
GA_CODE	3	C	Code for guaranty agency	GA.CODE
LOAN_GUA_RESP_BEG_DT	8	D	Begin Date when the GA was responsible for a particular loan.	LOAN_GUA.RESP_BEG_DT
LOAN_GUA_RESP_END_DT	8	D	End Date when the GA was responsible for a particular loan.	LOAN_GUA.RESP_END_DT
LOAN_NO	9	N	Number which uniquely identifies a specific loan	LOAN.NO
LOAN_ID_STU_SEQ_NO	4	N	Number which denotes attribute of the originating student when the loan was created.	LOAN.ID_STU_SEQ_NO
LOAN_SEQ_NO	4	N	Number which keeps the student number unique	LOAN.SEQ_NO
LOAN_TYPE	2	N	Type of loan	LOAN.LOAN_TYPE

Data Element	Length	Type	Description	Mapping
DT	8	D	Date set depending on NSLDS_CODE: 6006 = Loan Guar Activity (LOAN.DT) 6008 = Cancellation Date (LOAN_CAN.DT) 6217 = Repurchase Date (RPCH_LOAN.DT) 6015 = Transfer In Loan Date (LOAN.DT) 6025 = Transfer Out Loan Date (LOAN.DT) 6017 = Insurance Claim Payment Date (INSUR_CL_PMT.DT) 6117 = Insurance Claim Refund Date (INSUR_CL_RFD.DT)	See Procedure Logic and Description
AMT	6	N	Amount set depending on NSLDS_CODE: 6006 = Loan Amount (LOAN.AMT) 6008 = Cancellation Amount (SUM [LOAN_CAN.DIFF_AMT]) 6217 = Repurchase Amount (RPCH_LOAN.AMT) 6015 = Transfer In Loan Amount (LOAN.AMT) 6025 = Transfer Out Loan Amount (LOAN.AMT) 6017 = Insurance Claim Payment Amount (INSUR_CL_PMT.AMT_DIFF) 6117 = Insurance Claim Refund Amount (INSUR_CL_RFD.AMT_DIFF)	See Procedure Logic and Description
GA_TRANSFER_IND	1	C	When set to 'Y' indicates that the loan has been transferred and the GA is no longer responsible for the loan.	See Procedure Logic GA_TRANS_IND_VAR
TRNSFR_CAN_DT	8	D	Latest date of Cancellation before the Period End Date *** Applicable only to guarantee transferred in and guarantee transferred out activity files. Otherwise set to spaces.	LOAN_CAN.DT or Spaces

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Data Element	Length	Type	Description	Mapping
TRNSFR_CAN_AMT	6	N	The cumulative amount of loan or disbursements that were cancelled *** Applicable only to guarantee transferred in and guarantee transferred out activity files. Otherwise set to spaces.	LOAN_CAN.CUM_AMT or Spaces
RSN_CODE	2	C	Reason Code for the Insurance Claim *** Applicable only to insurance claim payment, insurance claim refund, and repurchase activity files. Otherwise set to spaces.	INSUR_CL_PMT.RSN_CODE
LNDR_RESP_BEG_DT	8	C	Date on which a lender assumed responsibility for servicing an FFEL Program Loan as reported by the Guaranty Agency *** Applicable only to insurance claim payment and insurance claim refund activity files. Otherwise set to spaces.	LEN_HOL.RESP_BEG_DT
LNDR_RESP_END_DT	8	C	Date on which a lender ended his responsibility for servicing an FFEL Program Loan as reported by the Guaranty Agency *** Applicable only to insurance claim payment and insurance claim refund activity files. Otherwise set to spaces.	LEN_HOL.RESP_END_DT

1.2.4.3 Definitions

Loan Type Codes

Program	Type Code	Description
FFEL	CL	FFEL Consolidated
	PL	FFEL PLUS
	RF	FFEL Refinanced
	SF	FFEL Stafford Subsidized
	SL	Supplemental Loan (SLS)
	SN	FFEL Stafford Non-Subsidized
	SU	FFEL Stafford Unsubsidized

Loan Status Codes

Status Category	Status Code	Description
Open	ID	In School/Grace
	DA	Deferral
	FB	Forbearance
	RP	Repayment

1.2.5 Computational Logic – Calculate Delta in Reasonability Quarterly Details

```
/***********************************************************************************************************
This step reads both the (1) Present Activity (activity data until the end of current report period) and (2)
Previous Activity (activity data until the end of previous report period). The difference in the two
activity tables is grouped by GA Code, Loan Number, Loan Type, and by Date of Activity and
populated in a difference temp table.
***********************************************************************************************************/
```

Pull the Previous RSNQ_DETAIL_TEMP Table/File for comparison by selecting dataset name with
'NSLPOFFIC' , previous Fiscal Quarter End Date.
If more than one dataset name matches those criteria /* there is more than one official run for that
quarter*/
    Select the one with the most recent Time Stamp
End If

If records are matched for the Previous and Current tables on each of the following key fields: GA
Code, Loan Number, Loan Supplemental Number, and Loan Sequential Number, Loan Type, Activity
Date and Claim Reason Code.
    If Present Activity Amt = Previous Activity Amt /*The record did not change between the past
    and present periods*/
        Bypass the record
    Else /*There is a change in the record*/
        Write this record in the RSNQ_DETAIL_DIFF_TEMP table after computing the
        Difference Amount as below:

        RSNQ_DETAIL_DIFF_TEMP.AMT_DIFF = RSNQ_DETAIL_TEMP_CURR.AMT -
        RSNQ_DETAIL_TEMP_PREV.AMT
    End If

Else value of the key fields in RSNQ_DETAIL_TEMP_CURR <> any of the values in the
RSNQ_DETAIL_TEMP_PREV /*There is a new activity for the current period*/

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Write this record of Present Activity file in the RSNQ_DETAIL_DIFF_TEMP table after initializing the previous amount to zeroes and after computing the Difference Amount for guaranty, cancellation, and disbursements:

RSNQ_DETAIL_DIFF_TEMP.AMT_PREV = 0

RSNQ_DETAIL_DIFF_TEMP.AMT_DIFF = RSNQ_DETAIL_TEMP_CURR.AMOUNT - RSNQ_DETAIL_DIFF_TEMP.AMT_PREV

Else value of the key fields in RSNQ_DETAIL_TEMP_PREV <> any of the values in the RSNQ_DETAIL_TEMP_CURR /* There was a deletion of records during the current period*/

Write this record of Previous Activity File in the RSNQ_DETAIL_DIFF_TEMP table after initializing the present amount to zeroes and after computing the Difference Amount for guaranty, cancellation, and disbursements.

RSNQ_DETAIL_DIFF_TEMP.AMT_CURR = 0

RSNQ_DETAIL_DIFF_TEMP.AMT_DIFF = RSNQ_DETAIL_DIFF_TEMP.AMT_CURR - RSNQ_DETAIL_TEMP_PREV.AMOUNT

End If

1.2.5.1 Inputs

RSNQ_DETAIL_TEMP for previous and current quarters (see 1.2.4.2 Outputs for layout)

1.2.5.2 *Outputs*

RSNQ_DETAIL_DIFF_TEMP

Data Element	Length	Type	Description	Mapping
NSLDS_COD E	4	N	NSLDS-Assigned-Code: Record Type set to 6006 for Guaranty Activity; set to 6008 for Cancellation Activity; set to 6017 for Insurance Claim Payment Activity Detail; set to 6117 for Insurance Claim Refund Activity Detail; set to 6217 for Repurchase Loan Activity Detail; set to 6015 for Guarantee Transferred In Activity Detail; set to 6025 for Guarantee Transferred Out Activity Detail.	RSNQ_DETAIL_TEMP_C URR.NSLDS_CODE

Data Element	Length	Type	Description	Mapping
RPT_BEG_DT	8	D	Report Begin Date - First day of a Fiscal Quarter	RSNQ_DETAIL_TEMP_CURR.RPT_BEG_DT
RPT_END_DT	8	D	Report End Date – Last day of a Fiscal Quarter	RSNQ_DETAIL_TEMP_CURR.RPT_END_DT
GA_CODE	3	C	Code for guaranty agency	RSNQ_DETAIL_TEMP_CURR.GA_CODE
LOAN_GUA_RESP_BEG_DT	8	D	GA Responsible Begin date: Begin Date when the GA was responsible for a particular loan	RSNQ_DETAIL_TEMP_CURR.LOAN_GUA_RESP_BEG_DT
LOAN_GUA_RESP_END_DT	8	D	GA Responsible End date: End Date when the GA was responsible for a particular loan	RSNQ_DETAIL_TEMP_CURR.LOAN_GUA_RESP_END_DT
LOAN_NO	9	N	Loan Number: Number which uniquely identifies a specific loan	RSNQ_DETAIL_TEMP_CURR.LOAN_NO
LOAN_ID_STU_SEQ_NO	4	N	Loan ID Student Sequential Number: Number which denotes attribute of the originating student when the loan was created	RSNQ_DETAIL_TEMP_CURR.LOAN_ID_STU_SEQ_NO
LOAN_SEQ_NO	4	N	Loan Sequential Number: Number which keeps the student number unique	RSNQ_DETAIL_TEMP_CURR.LOAN_SEQ_NO
LOAN_TYPE	2	C	Type of loan	RSNQ_DETAIL_TEMP_CURR.LOAN_TYPE
DT	8	D	Date of corresponding activity	RSNQ_DETAIL_TEMP_CURR.DT
AMT_CURR	6	N	Amount corresponding to present period for the respective activity	RSNQ_DETAIL_TEMP_CURR.AMT
AMT_PREV	6	N	Amount corresponding to previous period for the respective activity	RSNQ_DETAIL_TEMP_PREV.AMT
AMT_DIFF	6	N	Difference between amount corresponding to respective activity for present period and previous period	See Procedure Logic
GA_TRANSFER_IND	1	C	Guaranty Transferred Indicator: Flag set to "Y" when that GA is no longer responsible for that loan	RSNQ_DETAIL_TEMP_CURR.GA_TRANSFER_IND

Data Element	Length	Type	Description	Mapping
TRNSFR_CAN_DT	8	D	Cancellation Date: The effective date on which a whole or partial loan was cancelled	RSNQ_DETAIL_TEMP_CURR.TRNSFR_CAN_DT
TRNSFR_CAN_AMT	6	N	Amount of Cancellation: The cumulative amount of loan or disbursements that were cancelled	RSNQ_DETAIL_TEMP_CURR.TRNSFR_CAN_AMT
RSN_CODE	2	C	Reason Code for Insurance Claim Payment	RSNQ_DETAIL_TEMP_CURR.RSN_CODE
LNDR_RESP_BEG_DT	8	C	Lender Responsibility Begin Date: Date on which a lender assumed responsibility for servicing an FFEL Program Loan as reported by the Guaranty Agency	RSNQ_DETAIL_TEMP_CURR.LNDR_RESP_BEG_DT
LNDR_RESP_END_DT	8	C	Lender Responsibility End Date: Date on which a lender ended his responsibility for servicing an FFEL Program Loan as reported by the Guaranty Agency	RSNQ_DETAIL_TEMP_CURR.LNDR_RESP_END_DT

Note: For cases where the record exists in Previous detail table but not the Current detail table, the mappings will be to the LPIF_DETAIL TEMP_PREV table. This note applies to mappings for ALL data elements.

1.2.6   Computational Logic – Compute Claim Totals

```
/*******************************************************************************************************
```
This step of the procedure takes the difference values calculated in the previous step and sums the Insurance Claim Payments, Repurchases and Insurance Claim Refunds by GA, Loan Type, and Reason Code. These totals are then used in the next step to calculate the Net Insurance Claim Payments.
```
*******************************************************************************************************/
```

SELECT GA_CODE, LOAN_TYPE, RSN_CODE, NSLDS_CODE, EXTR_BEG_DT, EXTR_END_DT
SUM(AMT) FROM RSNQ_DETAIL_DIFF_TEMP
WHERE NSLDS_CODE IN (6017, 6117, 6217) /*Insurance Claim Payment, Insurance Refund, Repurchase*/
GROUP BY GA_CODE, LOAN_TYPE, RSN_CODE, NSLDS_CODE, EXTR_BEG_DT, EXTR_END_DT

1.2.6.1   Inputs

RSNQ_DETAIL_DIFF_TEMP (see 1.2.5.2 Outputs for layout)

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1.2.6.2 *Outputs*

RSNQ_INSUR_TOT_TEMP

Data Element	Length	Type	Description	Mapping
NSLDS_CODE	4	N	Record Type. Set to 6017 for insurance claim payment records. Set to 6117 for insurance claim refund records. Set to 6217 for loan repurchase records.	RSNQ_DETAIL_DIFF_TEMP.NSLDS_CODE
RPT_BEG_DT	8	D	Report Begin Date - First day of a Fiscal Quarter	RSNQ_DETAIL_DIFF_TEMP. RPT_BEG_DT
RPT_END_DT	8	D	Report End Date – Last day of a Fiscal Quarter	RSNQ_DETAIL_DIFF_TEMP. RPT_END_DT
GA_CODE	3	C	Code for Guaranty Agency	RSNQ_DETAIL_DIFF_TEMP.GA_CODE
LOAN_TYPE	2	C	Type of loan	RSNQ_DETAIL_DIFF_TEMP.LOAN_TYPE
RSN_CODE	2	C	Code for reason for insurance claim payment	RSNQ_DETAIL_DIFF_TEMP.RSN_CODE
AMT	15	N	Net Sum amount of insurance claim payment after deducting the amount of insurance claim refund and loan repurchase from the original insurance claim payment amount	RSNQ_DETAIL_DIFF_TEMP.AMT

1.2.7   Computational Logic – Compute Net Insurance Claim Payment

/***

This step of the procedure calculates the Net Insurance Claim Payment by pulling the Total Delta values calculated in the previous step for Insurance Claim Payments and subtracting the Repurchase and Insurance Claim Refunds. The Net Insurance Claim Payments are grouped by the default categories: Default, Death and Disability, and Closed School and False Certification. This data is in turn then used to populate the GA Summary table.
***/

/*Defaults*/
Select records from RSNQ_INSUR_TOT_TEMP where RSN_CODE = 'DF' match on the GA_CODE and LOAN_TYPE and take difference of amounts using NSLDS_CODE: 6017 – (6117 + 6217)
Set the RSNQ_NET_INSUR_TEMP. NSLDS_CODE = 8908

/*Death and Disability*/

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Select records from RSNQ_INSUR_TOT_TEMP where RSN_CODE = ('DE', 'DI') match on the GA_CODE and LOAN_TYPE and take difference of amounts using NSLDS_CODE: 6017 – (6117 + 6217)
Set the RSNQ_NET_INSUR_TEMP. NSLDS_CODE = 8910

/* Closed School and False Certification*/
Select records from RSNQ_INSUR_TOT_TEMP where RSN_CODE in ('CS', 'FC') match on the GA_CODE and LOAN_TYPE and take difference of amounts using NSLDS_CODE: 6017 – (6117 + 6217)
Set the RSNQ_NET_INSUR_TEMP. NSLDS_CODE = 8911

1.2.7.1 Inputs

RSNQ_INSUR_TOT_TEMP (see 1.2.6.2 Outputs for layout)

1.2.7.2 Outputs

RSNQ_NET_INSUR_TEMP

Data Element	Length	Type	Description	Mapping
NSLDS_CODE	4	Num.	Record Type Set to 8908 for Default Claim. Set to 8910 for Death & Disability Claim. Set to 8911 for Closed School and False Certification Claim	See Procedure Logic
RPT_BEG_DT	8	Date	Report Begin Date - First day of a Fiscal Quarter	RSNQ_INSUR_TOT_TEMP. RPT_BEG_DT
RPT_END_DT	8	Date	Report End Date – Last day of a Fiscal Quarter	RSNQ_INSUR_TOT_TEMP. RPT_END_DT
GA_CODE	3	Char.	Code for Guaranty Agency	RSNQ_INSUR_TOT_TEMP. GA_CODE
LOAN_TYPE	2	Char.	Type of loan	RSNQ_INSUR_TOT_TEMP. LOAN_TYPE
AMT	15	Num.	Net Sum amount of insurance claim payment after deducting the amount of insurance claim refund and loan repurchase from the original insurance claim payment amount	See Procedure Logic

1.2.7.3 *Definitions*

Claim Reason Code	Claim Description
'DF'	Default
'DE', 'DI'	Death and Disability
'CS', 'FC'	Closed School and False Certification

1.2.8   Computational Logic – Calculate RSNQ Summary

/**
This piece of the RSNQ procedure sums the RSNQ detail (Note: the Net Insurance Claim Payment is already summed in the previous step) and then loads the GA_SUM table. The data is summarized by GA and then by Loan Type within the GA table.
**/

/* Calculate the following using the RSNQ_DETAIL_DIFF_TEMP and RSNQ_NET_INSUR_TEMP tables. The NSLDS Assigned Codes used in the procedure are temporary codes. When populating the GA_SUM table use the codes as listed in the *definition* section*/

Group RSNQ_DETAIL_DIFF_TEMP by GA and NSLDS Assigned Code and for Guarantee Amounts and Cancelled amounts group by Federal Consolidated and Federal Non-Consolidated
        Sum AMT (across all loan type)
        Leave Loan Type blank

Group RSNQ_NET_INSUR_TEMP by GA and NSLDS Assigned Code
        Sum AMT (across all loan type)
        Leave Loan Type blank

Group RSNQ_DETAIL_DIFF_TEMP by GA, Loan Type and NSLDS Assigned Code
        Sum AMT (For a single Loan type)

Group RSNQ_NET_INSUR_TEMP by GA, Loan Type and NSLDS Assigned Code
        Sum AMT (For a single Loan type)

Set GA_SUM.OFFC_RUN_IND = PARM_ATTR_TEMP. FEE_PAY_IND

/*Check if there is already a run for the same time period*/
If GA_SUM record exists where (RPT_BEG_DT = PARM_ATTR_TEMP.RPT_BEG_DT and RPT_END_DT = PARM_ATTR_TEMP.RPT_END_DT and GA_CODE = (RSNQ_DETAIL_DIFF_TEMP.GA_CODE or RSNQ_NET_INSUR_TEMP.GA_CODE) and

AGG_DESC_DET_ID = (RSNQ_DETAIL_DIFF_TEMP.LOAN_TYPE or
RSNQ_NET_INSUR_TEMP.LOAN_TYPE or Blank as set in Procedure logic)

      Set GA_SUM.CMPT_TYPE = 'R'   /*File contains recomputed data*/

      If GA_SUM. OFFC_RUN_IND = Y for old and new entries

            /* If a GA_SUMMARY table entry already exists for the period, then the old record
            must be updated by setting fee paid indicator = space */

            Set GA_SUM. OFFC_RUN_IND for the old record to space

      End if

Else

      Set GA_SUM.CMPT_TYPE = 'O' /*File contains original data*/

End If

Set GA_SUM.SRC (source) = 'NSL2000'

Set Create time and Create Date from system current timestamp.

Create GA_SUMMARY occurrence only for each NON-zero aggregated value computed above.

/*If the run is official, check whether there is another official run for the proceeding report period. If
this is the case, the proceeding period must be re-run to account for the domino effect*/
If PARM_ATTR_TEMP.FEE_PAY_IND = 'Y' and GA_SUM record exists where (RPT_BEG_DT =
PARM_ATTR_TEMP.RPT_BEG_DT + 1 and RPT_END_DT = PARM_ATTR_TEMP.RPT_END_DT +1
and GA_CODE = (RSNQ_DETAIL_DIFF_TEMP.GA_CODE or RSNQ_NET_INSUR_TEMP.GA_CODE)
and AGG_DESC_DET_ID = (RSNQ_DETAIL_DIFF_TEMP.LOAN_TYPE or
RSNQ_NET_INSUR_TEMP.LOAN_TYPE or Blank as set in Procedure logic)

      Create a new RPT_PARM and RPT_PARM_ATTR identical to the current ones, except
      increment the Report Quarter

      Kick off the *RSNQ Detail Extract and Summarize Procedure* again by passing the RPT_PARM
      values

      /*** Note: Run the Backup RSNQ Detail Data step (see 1.2.9) before kicking the procedure off
      again***/

End If

1.2.8.1   Inputs

PARM_ATTR_TEMP (see 1.2.3.2 Outputs for layout)

RSNQ_DETAIL_DIFF_TEMP (see 1.2.5.2 Outputs for layout)

RSNQ_NET_INSUR_TEMP (see 1.2.7.2 Outputs for layout)

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1.2.8.2 *Outputs*

GA_SUM

Data Element	Length	Type	Description	Mapping
AGG_DESC_DET_ID	2	N	Designer added attribute, which will allow a unique identification of an occurrence of this entity. It will allow for grouping of aggregate descriptor items. For RSNQ, Loan Type is used	See Procedure Logic (RSNQ_DETAIL_TEMP. LOAN_TYPE or Blank for GA total record)
AGG_DESC_ID	2	N	Designer added attribute, which will allow a unique identification of an occurrence of this entity.	See Procedure Logic
AMT	15	N	A calculated total dollar amount based on an associated AGGREGATE_DISCRIPTOR. Note that this attribute is optional. Examples of summarized amounts would be Loan Amount Guaranty, Amount of Cancellations, Claim Amount, Repurchase Amount, etc.	See Procedure Logic
CMPT_TYPE	1	C	This represents the type of computation for the summarized data. First time it will be set to O, which implies it is Original Computation for NSLDS, summarized data. For ED form data it represents the first time reporting for a specific period. If the data were to be received more than once or computed multiple	See Procedure Logic
GA_CODE	3	C	Three-digit, all numeric identification code of the GA guaranteeing an FFEL Program Loan.	PARM_ATTR_TEMP. GA_CODE
NO	4	N	A calculated total number of loans or accounts based on the associated AGGREGATE_DISCRIPTOR. Note that this attribute is optional – RSNQ processing currently does not do	NULL
OFFC_RUN_IND	1	C	This represents the record type of the summary record. When set to Y indicates that the summary record was used to pay Fee such as LPIF and RSNQ. When set to blank, the GA Summary record was used only for analysis, but not for Fee Payment.	PARM_ATTR_TEMP. FEE_PAY_IND
RPT_BEG_DT	8	D	Start date for which the report is to be generated. Normally this is the beginning of a Quarter or a Month.	PARM_ATTR_TEMP.RPT _BEG_DT

Data Element	Length	Type	Description	Mapping
RPT_END_DT	8	D	End date for which the report is to be generated. This is normally end of quarter or end of a month.	PARM_ATTR_TEMP.RPT_END_DT
SRC	8	C	This will identify the source of the Summary information. For NSLDS computed form 2000 information it will be NSL2000. The corresponding ED2000 line item data from GAQ will be ED2000. Similarly it will be NSL2000 and ED2000 for form 2000 processing. For information not related to any of the forms it will be simply NSLDS.	'NSL2000'
SYS_CR_DT	8	D	For NSLDS it is the date on which the summary was created. For ED 2000 line item it is the date when the submittal file was created by the GAQ system. Format is CCYYMMDD.	Current System Timestamp
SYS_CR_TM	8	T	For NSLDS it is the date on which the summary was created. For ED 2000 line item it is the date when the submittal file was created by the GAQ system. Format is HH:MM:SS.	Current System Timestamp

1.2.8.3 *Definitions*

NSLDS Codes for ED2000 Line Items

NSLDS Codes for ED2000 Line Items (FY Data)		
ED Form 2000 Line Item	**ED2000 Line Item Number**	**NSLDS Assigned Code**
Loans Guaranteed Amount (except Federal Consolidation) (Include Federal SLS and Federal Plus Refinanced loans)	AR-1	8901
Loans Canceled Amount (except Federal Consolidation) (Sum of Unconsummated and Other)	AR-2	8902
Federal Consolidation Loans Guaranteed Amount	AR-3	8903
Federal Consolidation Loans Canceled Amount	AR-4	8904

NSLDS Codes for ED2000 Line Items (FY Data)		
ED Form 2000 Line Item	**ED2000 Line Item Number**	**NSLDS Assigned Code**
Loans Transferred In	AR-6	8906
Loans Transferred Out	AR-7	8907
Default Claim Paid	AR-8	8908
Death and Disability Claims Paid	AR-10	8910
Closed School/ False Certification Claims Paid	AR-11	8911
Loans Paid in Full	AR-12	8912
Federal Stafford and Unsubsidized Stafford Interim Loans	AR-13	8913
Loan Processing and Issuance Fee	AR-33	8933
Account Maintenance Fee	AR-34	8934
LPIF Guaranty Amount		8950
LPIF Cancellation Amount		8951
LPIF Disbursement Amount		8952
AMF Guaranty Amount		8953
AMF Cancellation Amount		8954
AMF Net Guaranty		8955

Loan Type Codes

Program	Type Code	Description
FFEL	CL	FFEL Consolidated
	PL	FFEL PLUS
	RF	FFEL Refinanced
	SF	FFEL Stafford Subsidized
	SL	Supplemental Loan (SLS)
	SN	FFEL Stafford Non-Subsidized
	SU	FFEL Stafford Unsubsidized

1.2.9   Computational Logic –Backup RSNQ Detail Data

```
/*********************************************************************************************
```

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This step of the procedure creates the tables/flat files that will be stored for future RSNQ calculations or for future RSNQ MBR009 queries. The table/file naming convention will indicate when the procedure was run, what reporting period it is for, and whether it was an official run.
**/

/*Create the Dataset Name that will be used for MBR 009 Reasonability Quarterly query functionality*/

If official run indicator = 'Y'

      Select all detail records from RSNQ_DETAIL_DIFF_TEMP table ordered by GA_CODE
      Set User ID = RPT_PARM.UID
      Set Fiscal Quarter End = PARM_ATTR_TEMP.RPT_END_DT
      Set Time Stamp as SAME timestamp used to populate GA_SUM in the previous step

      Set the table/backup file dataset name as NSLPOFFIC +User ID +RSNQ + Fiscal Quarter End
      Date +Time Stamp (CCYYMMDDHH:MM:SS)
      (i.e. NSLPOFFIC.S2S12360.RSNQ09312002.2002111409:16:30)
      /* 'OFFIC' indicates the procedure run was official */

      Select all detail records from RSNQ_DETAIL_TEMP table ordered by GA_CODE
      Set User ID = PARM_ATTR_TEMP.UID
      Set Fiscal Quarter End = PARM_ATTR_TEMP.RPT_END_DT
      Set Time Stamp as SAME timestamp used to populate GA_SUM in the previous step

      Set the table/backup file dataset name as NSLPOFFIC +User ID +RSNQCUM+ Fiscal Quarter
      End Date +Time Stamp (CCYYMMDDHH:MM:SS)
      /* 'CUM' indicates the data is cumulative life-to-date info */

Else /* official run indicator = 'N'*/

      Select all detail records from RSNQ_DETAIL_DIFF_TEMP table ordered by GA_CODE
      Set User ID = PARM_ATTR_TEMP.UID
      Set Fiscal Quarter End = PARM_ATTR_TEMP.RPT_END_DT
      Set Time Stamp as SAME timestamp used to populate GA_SUM in the previous step

      Set the table/backup file dataset name as NSLPUN +User ID +RSNQ + Fiscal Quarter End Date
      +Time Stamp (CCYYMMDDHH:MM:SS)
      (i.e. NSLPUN.S2S12360.RSNQ09312002.2002111409:16:30)
      /* 'UN' indicates the procedure run was not official */

      Select all detail records from RSNQ_DETAIL_TEMP table ordered by GA_CODE
      Set User ID = PARM_ATTR_TEMP.UID
      Set Fiscal Quarter End = PARM_ATTR_TEMP.RPT_END_DT

Set Time Stamp as SAME timestamp used to populate GA_SUM in the previous step

Set the table/backup file dataset name as NSLPUN +User ID +RSNQ+ Fiscal Quarter End Date +Time Stamp (CCYYMMDDHH:MM:SS)

End If

/*Note: The data is available for NSLDS II staff to check reasonability. They query on data by using the MBR009 report. This report searches for these tables/flat files by name. If the MBR009 is querying for an official run it should take the most recent OFFIC by looking at the timestamp*/

Backup the Detail Data Tables/Files

End the Procedure

1.2.9.1   *Inputs*

PARM_ATTR_TEMP (see 1.2.3.2 Outputs for layout)

RSNQ_DETAIL_TEMP (see 1.2.4.2 Outputs for layout)

RSNQ_DETAIL_DIFF_TEMP (see 1.2.5.2 Outputs for layout)

GA_SUM (see 1.2.5.2 Outputs for layout)

1.2.9.2   Outputs

See the Procedure for the Backup Tables/Files naming conventions. These Backup Tables/Files have the same layout as the temp tables: RSNQ_DETAIL_TEMP (see 1.2.4.2 Outputs for layout) & RSNQ_DETAIL_DIFF_TEMP (see 1.2.5.2 Outputs for layout)

Cumulative Table/File

Data Element	Length	Type	Description	Mapping
NSLDS_CODE	4	N	Record Type: 6006 = Loan Guar Activity 6008 = Cancellation Activity 6217 = Repurchase Activity 6015 = Transferred in Activity 6025 = Transferred out Activity 6017 = Insurance Claim Payment Activity 6117 = Insurance Claim Refund Activity	RSNQ_DETAIL_TEMP.NSLDS_CODE

Data Element	Length	Type	Description	Mapping
RPT_BEG_DT	8	D	Report Begin Date - First day of a Fiscal Quarter	RSNQ_DETAIL_TEMP.RPT_BEG_DT
RPT_END_DT	8	D	Report End Date – Last day of a Fiscal Quarter	RSNQ_DETAIL_TEMP.RPT_END_DT
GA_CODE	3	C	Code for guaranty agency	RSNQ_DETAIL_TEMP.GA_CODE
LOAN_GUA_RESP_BEG_DT	8	D	Begin Date when the GA was responsible for a particular loan.	RSNQ_DETAIL_TEMP.LOAN_GUA_RESP_BEG_DT
LOAN_GUA_RESP_END_DT	8	D	End Date when the GA was responsible for a particular loan.	RSNQ_DETAIL_TEMP.LOAN_GUA_RESP_END_DT
LOAN_NO	9	N	Number which uniquely identifies a specific loan	RSNQ_DETAIL_TEMP.LOAN_NO
LOAN_ID_STU_SEQ_NO	4	N	Number which denotes attribute of the originating student when the loan was created.	RSNQ_DETAIL_TEMP.LOAN_ID_STU_SEQ_NO
LOAN_SEQ_NO	4	N	Number which keeps the student number unique	RSNQ_DETAIL_TEMP.LOAN_SEQ_NO
LOAN_TYPE	2	N	Type of loan	RSNQ_DETAIL_TEMP.LOAN_TYPE
DT	8	D	Date set depending on NSLDS_CODE: 6006 = Loan Guar Activity (LOAN.DT) 6008 = Cancellation Date (LOAN_CAN.DT) 6217 = Repurchase Date (RPCH_LOAN.DT) 6015 = Transfer In Loan Date (LOAN.DT) 6025 = Transfer Out Loan Date (LOAN.DT) 6017 = Insurance Claim Payment Date (INSUR_CL_PMT.DT) 6117 = Insurance Claim Refund Date (INSUR_CL_RFD.DT)	RSNQ_DETAIL_TEMP.DT

Data Element	Length	Type	Description	Mapping
AMT	6	N	Amount set depending on NSLDS_CODE: 6006 = Loan Amount (LOAN.AMT) 6008 = Cancellation Amount (SUM [LOAN_CAN.DIFF_AMT]) 6217 = Repurchase Amount (RPCH_LOAN.AMT) 6015 = Transfer In Loan Amount (LOAN.AMT) 6025 = Transfer Out Loan Amount (LOAN.AMT) 6017 = Insurance Claim Payment Amount (INSUR_CL_PMT.AMT_DIFF) 6117 = Insurance Claim Refund Amount (INSUR_CL_RFD.AMT_DIFF)	RSNQ_DETAIL_TEMP.AMT
GA_TRANSFER_IND	1	C	When set to 'Y' indicates that the loan has been transferred and the GA is no longer responsible for the loan.	RSNQ_DETAIL_TEMP.GA_TRANSFER_IND
TRNSFR_CAN_DT	8	D	Latest date of Cancellation before the Period End Date *** Applicable only to guarantee transferred in and guarantee transferred out activity files. Otherwise set to spaces.	RSNQ_DETAIL_TEMP.TRNSFR_CAN_DT
TRNSFR_CAN_AMT	6	N	The cumulative amount of loan or disbursements that were cancelled *** Applicable only to guarantee transferred in and guarantee transferred out activity files. Otherwise set to spaces.	RSNQ_DETAIL_TEMP.TRNSFR_CAN_AMT
RSN_CODE	2	C	Reason Code for the Insurance Claim *** Applicable only to insurance claim payment, insurance claim refund, and repurchase activity files. Otherwise set to spaces.	RSNQ_DETAIL_TEMP.RSN_CODE

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Data Element	Length	Type	Description	Mapping
LNDR_RESP_BEG_DT	8	C	Date on which a lender assumed responsibility for servicing an FFEL Program Loan as reported by the Guaranty Agency *** Applicable only to insurance claim payment and insurance claim refund activity files. Otherwise set to spaces.	RSNQ_DETAIL_TEMP.LNDR_RESP_BEG_DT
LNDR_RESP_END_DT	8	C	Date on which a lender ended his responsibility for servicing an FFEL Program Loan as reported by the Guaranty Agency *** Applicable only to insurance claim payment and insurance claim refund activity files. Otherwise set to spaces.	RSNQ_DETAIL_TEMP.LNDR_RESP_END_DT

Difference Table/File

Data Element	Length	Type	Description	Mapping
NSLDS_CODE	4	N	NSLDS-Assigned-Code: Record Type set to 6006 for Guaranty Activity; set to 6008 for Cancellation Activity set to 6017 for Insurance Claim Payment Activity Detail; set to 6117 for Insurance Claim Refund Activity Detail; set to 6217 for Repurchase Loan Activity Detail; set to 6015 for Guarantee Transferred In Activity Detail; set to 6025 for Guarantee Transferred Out Activity Detail.	RSNQ_DETAIL_DIFF_TEMP.NSLDS_CODE
RPT_BEG_DT	8	D	Report Begin Date - First day of a Fiscal Quarter	RSNQ_DETAIL_DIFF_TEMP.RPT_BEG_DT
RPT_END_DT	8	D	Report End Date – Last day of a Fiscal Quarter	RSNQ_DETAIL_DIFF_TEMP.RPT_END_DT
GA_CODE	3	C	Code for guaranty agency	RSNQ_DETAIL_DIFF_TEMP.GA_CODE
LOAN_GUA_RESP_BEG_DT	8	D	GA Responsible Begin date: Begin Date when the GA was responsible for a particular loan	RSNQ_DETAIL_DIFF_TEMP.LOAN_GUA_RESP_BEG_DT
LOAN_GUA_RESP_END_DT	8	D	GA Responsible End date: End Date when the GA was responsible for a particular loan	RSNQ_DETAIL_DIFF_TEMP.LOAN_GUA_RESP_END_DT

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Data Element	Length	Type	Description	Mapping
LOAN_NO	9	N	Loan Number: Number which uniquely identifies a specific loan	RSNQ_DETAIL_DIFF_TEMP.LOAN_NO
LOAN_ID_STU_SEQ_NO	4	N	Loan ID Student Sequential Number: Number which denotes attribute of the originating student when the loan was created	RSNQ_DETAIL_DIFF_TEMP.LOAN_ID_STU_SEQ_NO
LOAN_SEQ_NO	4	N	Loan Sequential Number: Number which keeps the student number unique	RSNQ_DETAIL_DIFF_TEMP.LOAN_SEQ_NO
LOAN_TYPE	2	C	Type of loan	RSNQ_DETAIL_DIFF_TEMP.LOAN_TYPE
DT	8	D	Date of corresponding activity	RSNQ_DETAIL_DIFF_TEMP.DT
AMT_CURR	6	N	Amount corresponding to present period for the respective activity	RSNQ_DETAIL_DIFF_TEMP.AMT_CURR
AMT_PREV	6	N	Amount corresponding to previous period for the respective activity	RSNQ_DETAIL_DIFF_TEMP.AMT_PREV
AMT_DIFF	6	N	Difference between amount corresponding to respective activity for present period and previous period	RSNQ_DETAIL_DIFF_TEMP.AMT_DIFF
GA_TRANSFER_IND	1	C	Guaranty Transferred Indicator: Flag set to "Y" when that GA is no longer responsible for that loan	RSNQ_DETAIL_DIFF_TEMP.GA_TRANSFER_IND
TRNSFR_CAN_DT	8	D	Cancellation Date: The effective date on which a whole or partial loan was cancelled	RSNQ_DETAIL_DIFF_TEMP.TRNSFR_CAN_DT
TRNSFR_CAN_AMT	6	N	Amount of Cancellation: The cumulative amount of loan or disbursements that were cancelled	RSNQ_DETAIL_DIFF_TEMP.TRNSFR_CAN_AMT
RSN_CODE	2	C	Reason Code for Insurance Claim Payment	RSNQ_DETAIL_DIFF_TEMP.RSN_CODE
LNDR_RESP_BEG_DT	8	C	Lender Responsibility Begin Date: Date on which a lender assumed responsibility for servicing an FFEL Program Loan as reported by the Guaranty Agency	RSNQ_DETAIL_DIFF_TEMP.LNDR_RESP_BEG_DT
LNDR_RESP_END_DT	8	C	Lender Responsibility End Date: Date on which a lender ended his responsibility for servicing an FFEL Program Loan as reported by the Guaranty Agency	RSNQ_DETAIL_DIFF_TEMP.LNDR_RESP_END_DT

1.2.10 Procedure Assumptions

#	Assumption
1	The RSNQ is computed as of the date of the run.

2	Scheduled mode is always run 60 days after the last day of the Fiscal Year. If the scheduled mode is run before the set Number of Days Back (SEQ 14), then it will be a re-run of the scheduled mode run the prior quarter.
3	All detailed RSNQ data will be backed up on tape. The back up process will be further defined based on the final NSLDS II platform configuration.
4	The RSNQ is computed as of the date of the run. If the RSNQ is run for a past quarter, values that do not have history (such as Loan Amount) will reflect the run date's value not the historical value.
5	If the RSNQ is run for a past quarter and the official run indicator is 'N', no future quarters will be re-run (to account for the domino effect of historical changes)